

SONY®

LCD Digital Colour TV

Operating Instructions

KDL-52V4000/52V42xx

KDL-46V4000/46V42xx



KDL-40V4000/40V42xx

KDL-40S40xx/40U40xx

BRAVIA

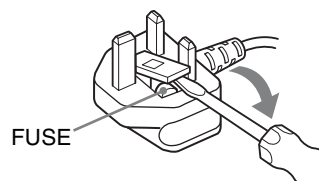
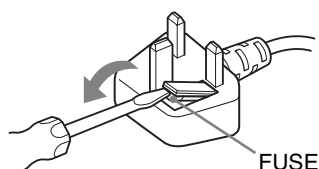
NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced with the same rating of fuse approved by ASTA or BSI to BS 1362 (i.e., marked with  or ) must be used.

When an alternative type of plug is used it should be fitted with the same rating of fuse, otherwise the circuit should be protected by a 13 AMP FUSE at the distribution board.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.



How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.

Please refer to the illustration that actually equiped with the product.

Introduction

Thank you for choosing this Sony product. Before operating the TV, please read this manual thoroughly and retain it for future reference.

Notes on Digital TV function

- Functions related to Digital TV (**DVB**) will work only in countries or areas where a compatible DVB-C (MPEG2) cable service is available. Confirm with your local dealer whether the area you are in receives DVB-T signals, or ask your cable provider whether its DVB-C cable service is compatible with this TV.
- Your cable provider may charge a fee for their services, or require you to agree to its terms and conditions of business.
- This TV set complies with DVB-T and DVB-C specifications, but compatibility with future DVB-T digital terrestrial and DVB-C digital cable broadcasts are not guaranteed.
- Some Digital TV functions may not be available in some countries/areas and DVB-C cable may not operate correctly with some providers.

For a list of compatible cable providers, refer to the support web site:

<http://support.sony-europe.com/TV/DVBC/>

Trademark information

DVB is a registered trademark of the DVB Project

Manufactured under license from BBE Sound, Inc. Licensed by BBE Sound, Inc. under one or more of the following US patents: 5510752, 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

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BBE VIVA
HD3D Sound

VIRTUAL
DOLBY
SURROUND

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

- The illustrations used in this manual are of the KDL-40V4000 unless otherwise stated.
- The "xx" that appears on the model name, corresponds to two numeric digits related to design or colour variation.

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DVB : for digital channels only

Before operating the TV, please read “Safety Information” (page 9). Retain this manual for future reference.

Start-up Guide

1: Checking the accessories

Mains lead (Type BF)* (1)

Stand (1) and screws (4)

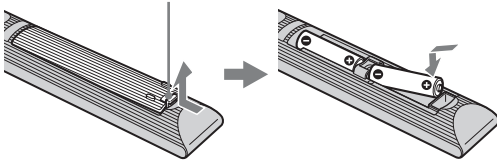
Remote RM-ED013 (1)

Size AA batteries (R6 type) (2)

* Do not remove the ferrite cores.

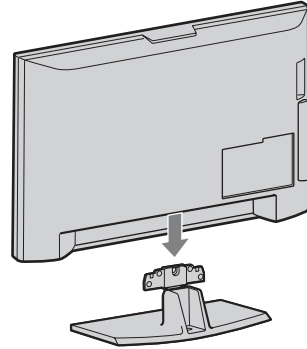
To insert batteries into the remote

Push and lift the cover to open.

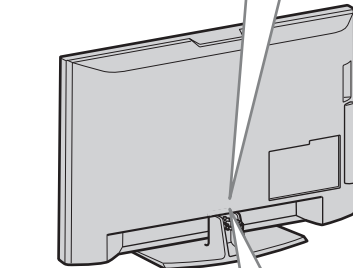
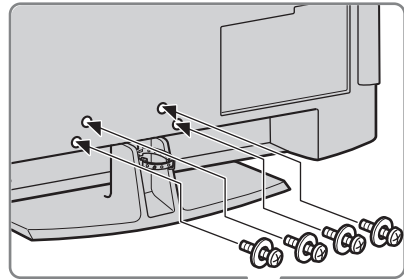


2: Attaching the stand (except for KDL-52V4000/52V42xx)

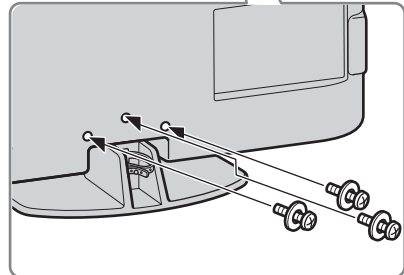
1



2 KDL-46V4000/46V42xx/40V4000/40V42xx



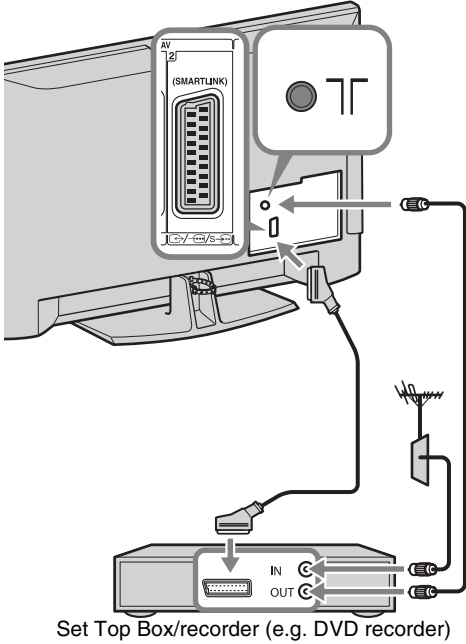
KDL-40S40xx/40U40xx



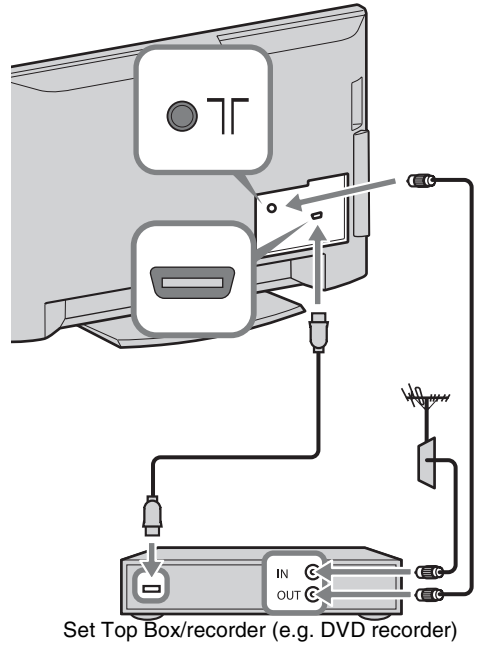
- If using an electric screwdriver, set the tightening torque at approximately 1.5 N·m (15 kgf·cm).

3: Connecting an aerial/Set Top Box/recorder (e.g. DVD recorder)

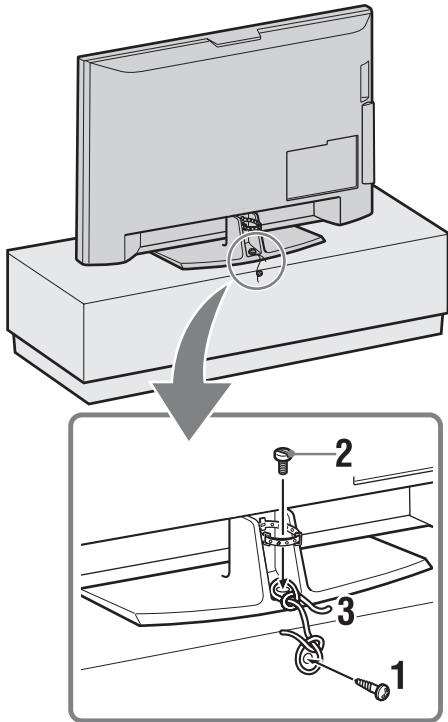
Connecting a Set Top Box/recorder (e.g. DVD recorder) with SCART



Connecting a Set Top Box/recorder (e.g. DVD recorder) with HDMI

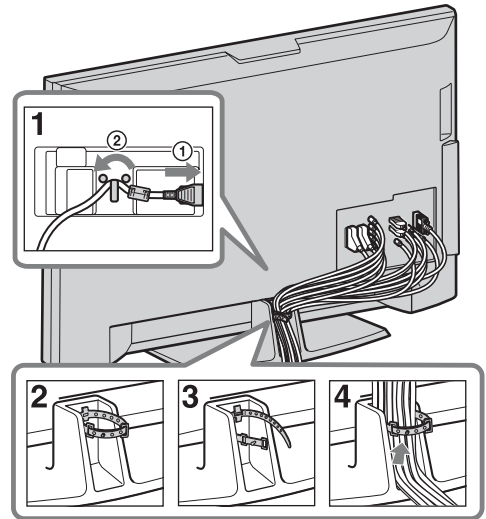


4: Preventing the TV from toppling over

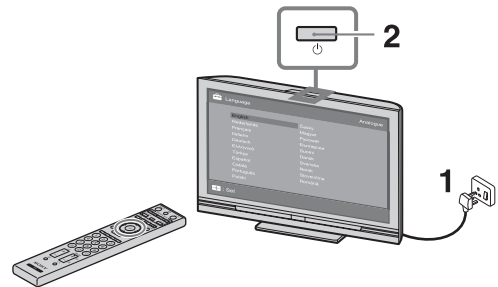


- 1 Install a wood screw (4 mm in diameter, not supplied) in the TV stand.
- 2 Install a machine screw (M5 × 12, not supplied) into the screw hole of the TV.
- 3 Tie the wood screw and the machine screw with a strong cord.

5: Bundling the cables

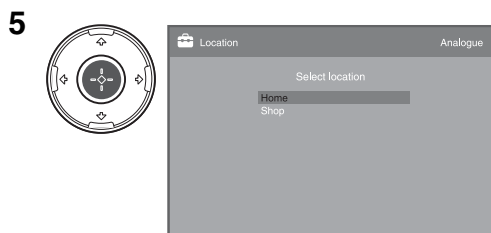
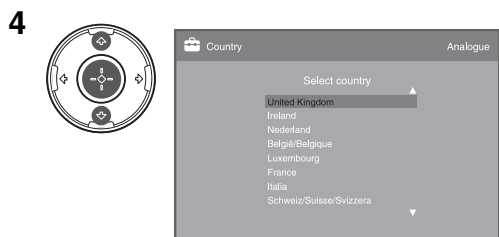


6: Performing the initial set-up

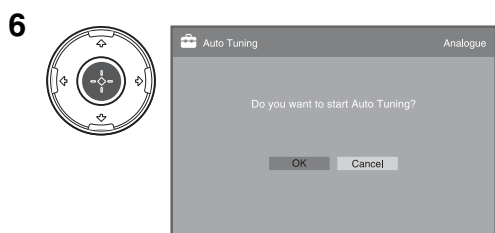


3

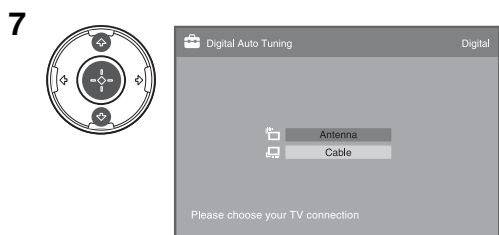




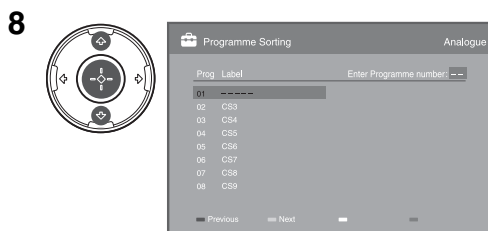
Select "Home".



Make sure that the aerial is connected.

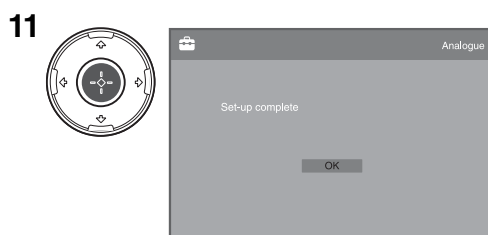
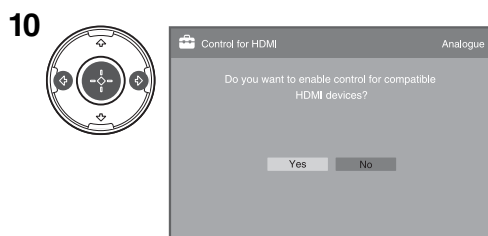
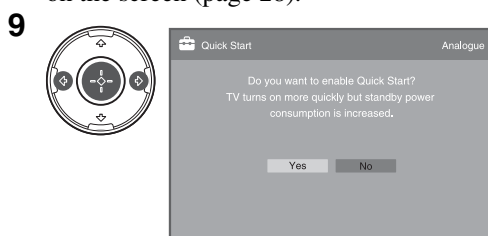


When you select "Cable", we recommend that you select "Quick Scan" for quick tuning. Set "Frequency" and "Network ID" according to the information supplied from your cable provider. If no channel is found using "Quick Scan", try "Full Scan"(though it may take some time). For a list of compatible cable providers, refer to the support web site: <http://support.sony-europe.com/TV/DVBC/>



If you want to change the order of analogue channels, follow the steps in "Programme Sorting" on page 31.

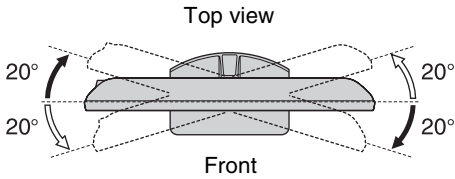
If your TV cannot receive digital broadcasts, the "Clock Set" menu appears on the screen (page 28).



Adjusting the viewing angle of the TV (except for KDL-40U40xx)


This TV can be adjusted within the angles shown below.

Adjust the angle left and right (swivel)

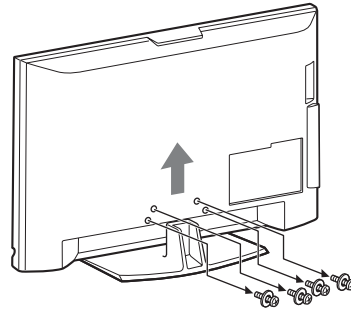


Detaching the Table-Top Stand from the TV

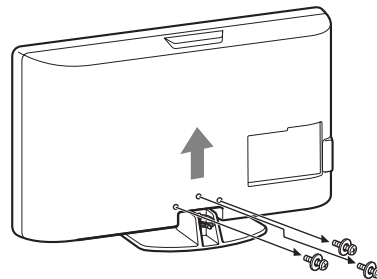


- Remove the screws guided by the arrow marks  of the TV.
- Do not remove the Table-Top Stand for any reason other than to wall-mount the TV.

**KDL-52V4000/52V42xx/46V4000/46V42xx/
40V4000/40V42xx**



KDL-40S40xx/40U40xx



Safety Information

Installation/Set-up

Install and use the TV set in accordance with the instructions below in order to avoid any risk of fire, electrical shock or damage and/or injuries.

Installation

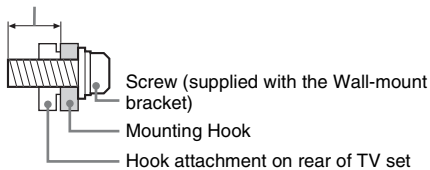
- The TV set should be installed near an easily accessible mains socket.
- Place the TV set on a stable, level surface.
- Only qualified service personnel should carry out wall installations.
- For safety reasons, it is strongly recommended that you use Sony accessories, including:
 - KDL-52V4000/52V42xx:
 - Wall-mount bracket SU-WL500
 - KDL-46V4000/46V42xx/40V4000/40V42xx/40S40xx/40U40xx:
 - Wall-mount bracket SU-WL500
 - TV stand SU-FL300M

- Be sure to use the screws supplied with the Wall-mount bracket when attaching the mounting hooks to the TV set. The supplied screws are designed so that they are 8 mm to 12 mm in length when measured from the attaching surface of the mounting hook.

The diameter and length of the screws differ depending on the Wall-mount bracket model.

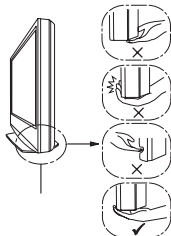
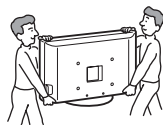
Use of screws other than those supplied may result in internal damage to the TV set or cause it to fall, etc.

8 mm - 12 mm



Transporting

- Before transporting the TV set, disconnect all cables.
- Two or three people are needed to transport a large TV set.
- When transporting the TV set by hand, hold it as shown on the right. Do not put stress on the LCD panel.
- When lifting or moving the TV set, hold it firmly from the bottom.
- When transporting the TV set, do not subject it to jolts or excessive vibration.
- When transporting the TV set for repairs or when moving, pack it using the original carton and packing material.



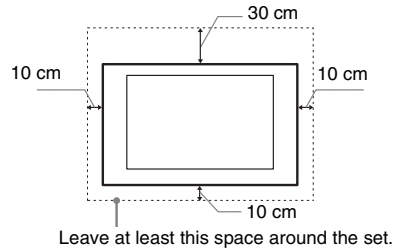
Be sure to hold the bottom of the panel, not the front part. Do not handle with dent area.

Do not handle with the transparent bottom part.

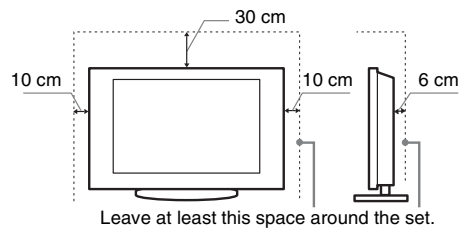
Ventilation

- Never cover the ventilation holes or insert anything in the cabinet.
- Leave space around the TV set as shown below.
- It is strongly recommended that you use a Sony wall-mount bracket in order to provide adequate air-circulation.

Installed on the wall

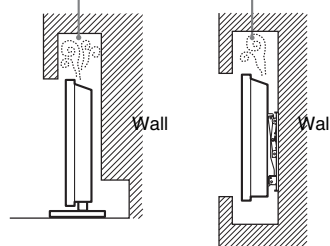


Installed with stand



- To ensure proper ventilation and prevent the collection of dirt or dust:
 - Do not lay the TV set flat, install upside down, backwards, or sideways.
 - Do not place the TV set on a shelf, rug, bed or in a closet.
 - Do not cover the TV set with a cloth, such as curtains, or items such as newspapers, etc.
 - Do not install the TV set as shown below.

Air circulation is blocked.



Mains lead

Handle the mains lead and socket as follows in order to avoid any risk of fire, electrical shock or damage and/or injuries:

- Use only Sony mains leads, not those of other brands.
- Insert the plug fully into the mains socket.
- Operate the TV set on a 220–240 V AC supply only.
- When wiring cables, be sure to unplug the mains lead for your safety and take care not to catch your feet on the cables.
- Disconnect the mains lead from the mains socket before working on or moving the TV set.
- Keep the mains lead away from heat sources.
- Unplug the mains plug and clean it regularly. If the plug is covered with dust and it picks up moisture, its insulation may deteriorate, which could result in a fire.

Notes

- Do not use the supplied mains lead on any other equipment.
- Do not pinch, bend, or twist the mains lead excessively. The core conductors may be exposed or broken.

- Do not modify the mains lead.
- Do not put anything heavy on the mains lead.
- Do not pull on the mains lead itself when disconnecting the mains lead.
- Do not connect too many appliances to the same mains socket.
- Do not use a poor fitting mains socket.

Prohibited Usage

Do not install/use the TV set in locations, environments or situations such as those listed below, or the TV set may malfunction and cause a fire, electrical shock, damage and/or injuries.

Location:

Outdoors (in direct sunlight), at the seashore, on a ship or other vessel, inside a vehicle, in medical institutions, unstable locations, near water, rain, moisture or smoke.

Environment:

Places that are hot, humid, or excessively dusty; where insects may enter; where it might be exposed to mechanical vibration, near flammable objects (candles, etc). The TV set shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the TV.

Situation:

Do not use when your hands are wet, with the cabinet removed, or with attachments not recommended by the manufacturer. Disconnect the TV set from mains socket and aerial during lightning storms.

Broken pieces:

- Do not throw anything at the TV set. The screen glass may break by the impact and cause serious injury.
- If the surface of the TV set cracks, do not touch it until you have unplugged the mains lead. Otherwise electric shock may result.

When not in use

- If you will not be using the TV set for several days, the TV set should be disconnected from the mains for environmental and safety reasons.
- As the TV set is not disconnected from the mains when the TV set is just turned off, pull the plug from the mains to disconnect the TV set completely.
- However, some TV sets may have features that require the TV set to be left in standby to work correctly.

For children

- Do not allow children to climb on the TV set.
- Keep small accessories out of the reach of children, so that they are not mistakenly swallowed.

If the following problems occur...

Turn off the TV set and unplug the mains lead immediately if any of the following problems occur.

Ask your dealer or Sony service centre to have it checked by qualified service personnel.

When:

- Mains lead is damaged.
- Poor fitting of mains socket.
- TV set is damaged by being dropped, hit or having something thrown at it.
- Any liquid or solid object falls through openings in the cabinet.

Precautions

Viewing the TV

- View the TV in moderate light, as viewing the TV in poor light or during long period of time, strains your eyes.
- When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

LCD Screen

- Although the LCD screen is made with high-precision technology and 99.99% or more of the pixels are effective, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD screen and is not a malfunction.
- Do not push or scratch the front filter, or place objects on top of this TV set. The image may be uneven or the LCD screen may be damaged.
- If this TV set is used in a cold place, a smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomena disappear as the temperature rises.
- Ghosting may occur when still pictures are displayed continuously. It may disappear after a few moments.
- The screen and cabinet get warm when this TV set is in use. This is not a malfunction.
- The LCD screen contains a small amount of liquid crystal. Some fluorescent tubes used in this TV set also contain mercury. Follow your local ordinances and regulations for disposal.

Handling and cleaning the screen surface/cabinet of the TV set

Be sure to unplug the mains lead connected to the TV set from mains socket before cleaning.

To avoid material degradation or screen coating degradation, observe the following precautions.

- To remove dust from the screen surface/cabinet, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the screen surface and cabinet material.
- When adjusting the angle of the TV set, move it slowly so as to prevent the TV set from moving or slipping off from its table stand.

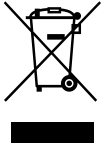
Optional Equipment

Keep optional components or any equipment emitting electromagnetic radiation away from the TV set. Otherwise picture distortion and/or noisy sound may occur.

Batteries

- Observe the correct polarity when inserting batteries.
- Do not use different types of batteries together or mix old and new batteries.
- Dispose of batteries in an environmentally friendly way. Certain regions may regulate the disposal of batteries. Please consult your local authority.
- Handle the remote with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote in a location near a heat source, a place subject to direct sunlight, or a damp room.

Disposal of the TV set



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.



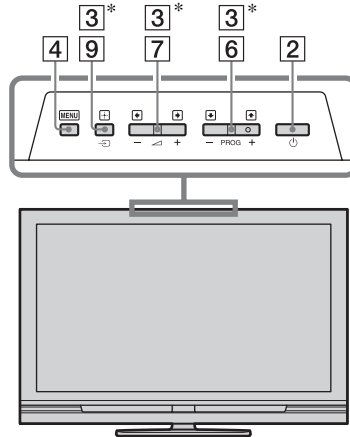
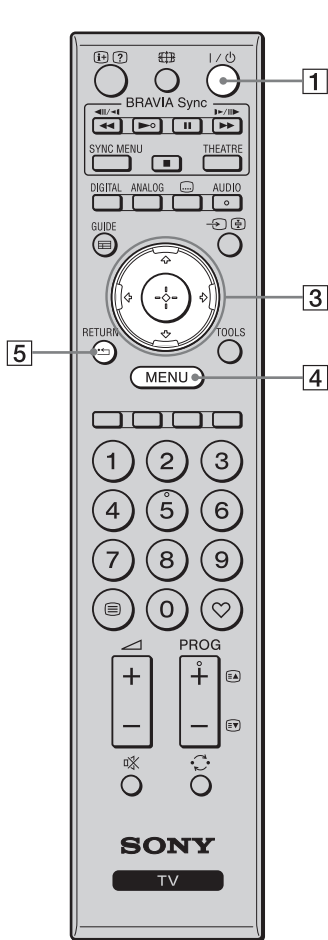
Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

Remote Control and TV Controls/Indicators

Remote control and TV controls





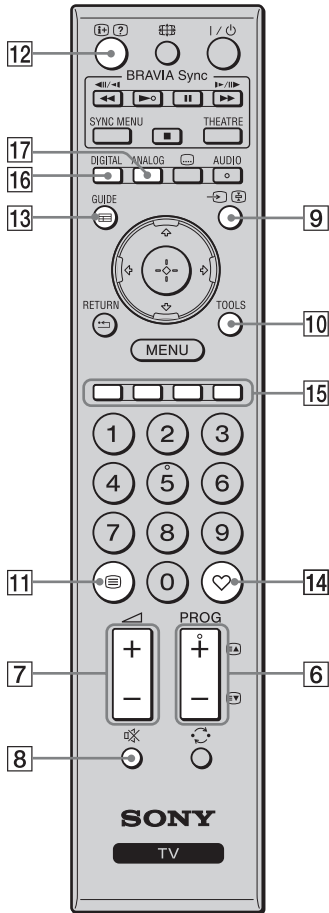
Buttons on the TV will work the same as those on the remote control.


* In TV menu, these buttons will work as $\uparrow/\downarrow/\leftarrow/\rightarrow/\oplus$

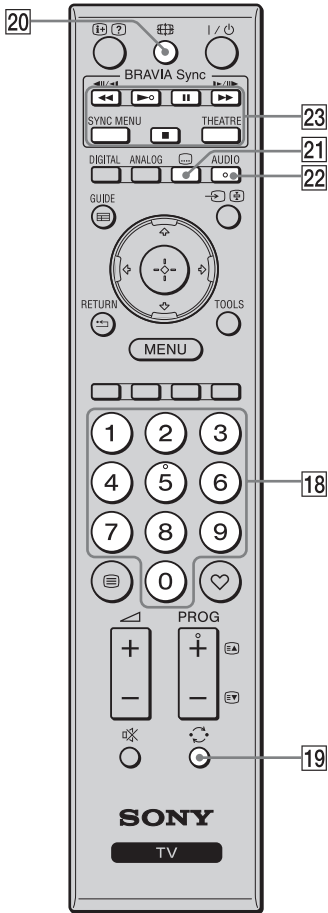




- The number 5, \blacktriangleright , **PROG +** and **AUDIO** buttons have a tactile dot. Use the tactile dots as a reference when operating the TV.

Button	Description
1 I/Power (TV standby)	Press to turn the TV on and off from standby mode.
2 Power	Press to turn the TV on or off.  • To disconnect the TV completely, turn off the TV, then unplug the mains lead from the mains.
3 $\uparrow/\downarrow/\leftarrow/\rightarrow/\oplus$	Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to move the on-screen cursor. Press \oplus to select/confirm the highlighted item.
4 MENU	Press to display the TV menu (page 25).
5 RETURN / 	Press to return to the previous screen of the displayed menu.



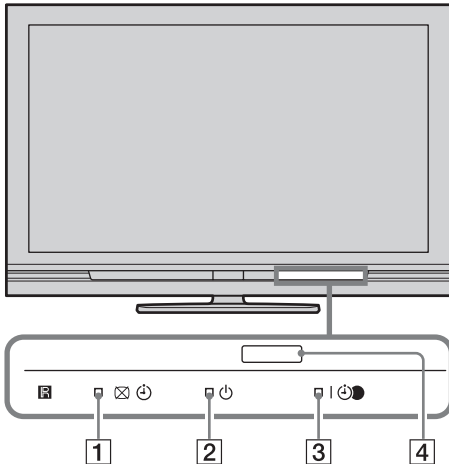
6	PROG +/- ⏪/⏩	In TV mode: Press to select the next (+) or previous (–) channel. In Analogue Text mode: Press to select the next (⏪) or previous (⏩) page.
7	+/- (Volume)	Press to adjust the volume.
8	Mute	Press to mute the sound. Press again to restore the sound.  • In standby mode, if you want to turn on the TV without sound, press this button.
9	↔/⏪ (Input select/Text hold)	In TV mode: Press to display a list of equipment connected to the TV (page 23). In Analogue Text mode: Press to hold the current page.
10	TOOLS	Press to display a list that contains “PAP” (page 23), “PIP” (page 23), “Device Control”, or shortcuts to some setting menus (page 26). Use the “Device Control” menu to operate equipment that is compatible with control for HDMI. The listed options vary depending on the input source and screen format.
11	☰ (Text)	Press to display text information (page 16).
12	⊕/? (Info/Text reveal)	In digital mode: Displays details of the programme currently being viewed. In analogue mode: Displays information such as current channel number and screen format. In Analogue Text mode (page 17): Reveals hidden information (e.g. answers to a quiz).
13	GUIDE / ☰ (EPG)	Press to display the Digital Electronic Programme Guide (EPG) (page 18).
14	♥ (Favourite)	Press to display the Digital Favourite List that you have specified (page 20).
15	Coloured buttons	When the coloured buttons are available, an operation guide appears on the screen. Follow the operation guide to perform a selected operation (page 17, 18, 20).
16	DIGITAL	Press to display the digital channel that was last viewed.
17	ANALOG	Press to display the analogue channel that was last viewed.



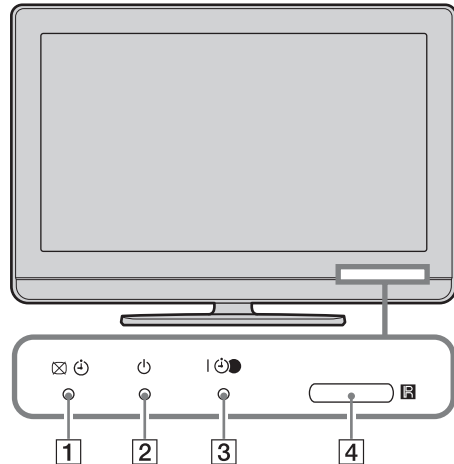
18	Number buttons	In TV mode: Press to select channels. For channel numbers 10 and above, press the second and third digits in quick succession. In Analogue Text mode: Press to enter a page number.
19	⏪ (Previous channel)	Press to return to the channel that was last viewed (for more than five seconds).
20	⏴ (Screen mode)	Press to change the screen format (page 17).
21	⋮ (Subtitle setting)	Press to display the “Subtitle Setting” menu (page 33) (in digital mode only).
22	AUDIO	In analogue mode: Press to change the dual sound mode (page 27). In digital mode: Press to display the “Audio Language” menu (page 33).
23	BRAVIA Sync	<p>⏪/⏩/⏸/⏹/■: You can operate the BRAVIA Sync-compatible equipment that is connected to the TV.</p> <p>SYNC MENU: Displays the menu of connected HDMI equipment. While viewing other input screens or TV programmes, “HDMI Device Selection” is displayed when the button is pressed.</p> <p>THEATRE: You can set Theatre Mode on or off. When Theatre Mode is set to on, the optimum audio output (if the TV is connected with an audio system using an HDMI cable) and picture quality for film-based contents are automatically set.</p> <p> If you turn the TV off, Theatre Mode is also turned off.</p> <p> Control for HDMI (BRAVIA Sync) is only available with the connected Sony equipment that has the BRAVIA Sync logo or is compatible with control for HDMI.</p>

Indicators

KDL-52V4000/52V42xx/46V4000/
46V42xx/40V4000/40V42xx



KDL-40S40xx/40U40xx

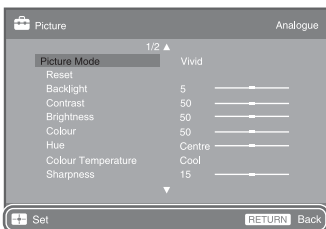


Indicator	Description
1 — Picture Off / Timer	Lights up in green when you select “Picture Off” (page 28). Lights up in orange when you set the timer (page 28).
2 — Standby	Lights up in red when the TV is in standby mode.
3 — Power/ Timer REC	Lights up in green when the TV is on. Lights up in orange when you have set the timer recording (page 18). Lights up in red during timer recording.
4 Remote control sensor	Receives IR signals from the remote. Do not put anything over the sensor. The sensor may not operate properly.



- Make sure that the TV is completely turned off before unplugging the mains lead. Unplugging the mains lead while the TV is turned on may cause the indicator to remain lit or may cause the TV to malfunction.

About the operation guide on the TV screen



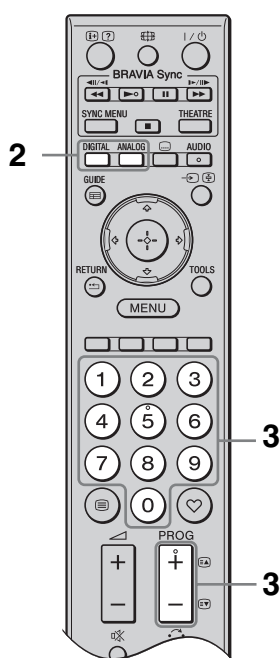
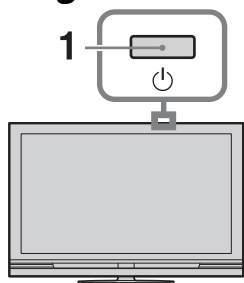
Operation Guide




Example: Press or **RETURN** (see or on page 12).

The operation guide provides help on how to operate the TV using the remote, and is displayed at the bottom of the screen. Use the remote buttons shown on the operation guide.

Watching TV

Watching TV



- 1 Press  on the TV to turn on the TV.
When the TV is in standby mode (the  (standby) indicator on the TV front panel is red), press **I**/ on the remote to turn on the TV.
- 2 Press **DIGITAL** to switch to digital mode, or press **ANALOG** to switch to analogue mode.
The available channels vary depending on the mode.










- 3 Press the number buttons or **PROG +/-** to select a TV channel.

To select channel numbers 10 and above using the number buttons, enter the second and third digits in quick succession.





To select a digital programme using the Digital Electronic Programme Guide (EPG), see page 18.

In digital mode


An information banner appears briefly. The following icons may be indicated on the banner.

- : Interactive service is available (Digital Text)
- : Radio service
- : Scrambled/Subscription service
- : Multiple audio languages available
- : Subtitles available
- : Subtitles available for the hearing impaired
- : Recommended minimum age for current programme (ages from 4 to 18)
- : Parental lock
-  (in red): Current programme is being recorded

Additional operations

To	Do this
Access the Programme index table (in analogue mode only)	Press  . To select an analogue channel, press  , then press  .
Access the Digital Favourites (in digital mode only)	Press  . For details, see page 20.

To access Digital Text

Many broadcasters provide a Digital Text service. Digital Text offers graphically rich contents, compared to Analogue Text. Select a digital channel which provides Digital Text, then press .

When a broadcaster provides a dedicated Digital Text channel, select this channel to access Digital Text.

To navigate through Digital Text, follow the instructions on the screen.

To exit Digital Text, press RETURN.

To move around, press $\uparrow/\downarrow/\leftarrow/\rightarrow$.

To select items, press \oplus and the number buttons.

To access shortcuts, press the coloured buttons.

To access Analogue Text

In analogue mode, press ⏏ . Each time you press ⏏ , the display changes cyclically as follows:

Text \rightarrow Text and TV picture \rightarrow No Text (exit the Text service)

To select a page, press the number buttons or $\text{⏏}/\text{⏏}$.

To hold a page, press ⏏ .

To reveal hidden information, press ⏏ .

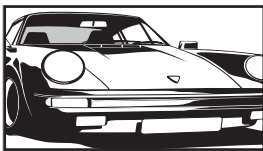


- When four coloured items appear at the bottom of the Text page, you can access pages quickly and easily (Fast Text). Press the corresponding coloured button to access the page.

To change the screen format manually

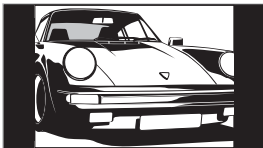
Press ⏏ repeatedly to select the desired screen format.

Smart*



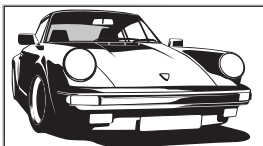
Displays conventional 4:3 broadcasts with an imitation wide screen effect. The 4:3 picture is stretched to fill the screen.

4:3



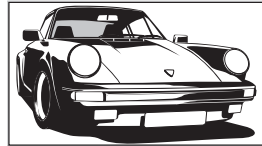
Displays conventional 4:3 broadcasts (e.g. non-wide screen TV) in the correct proportion.

Wide



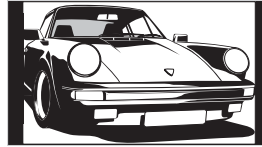
Displays wide screen (16:9) broadcasts in the correct proportion.

Zoom*



Displays cinemascopic (letter box format) broadcasts in the correct proportion.

14:9*



Displays 14:9 broadcasts in the correct proportion. As a result, black border areas are visible on the screen.

* Parts of the top and bottom of the picture may be cut off. You can adjust the vertical position of the picture. Press \uparrow/\downarrow to move the picture up or down (e.g. to read subtitles).



- When you select “Smart”, some characters and/or letters at the top and the bottom of the picture may not be visible. In such a case, adjust “Vertical Size” in the “Screen Settings” menu (page 29).
- You cannot select “4:3” or “14:9” for HD signal source pictures.



- When “Auto Format” (page 29) is set to “On”, the TV automatically selects the best mode to suit the broadcast.
- If 720p, 1080i or 1080p source pictures are displayed with black borders on the screen edges, select “Smart” or “Zoom” to adjust the pictures.



Using the Digital Electronic Programme Guide (EPG) **DVB***



Digital Electronic Programme Guide (EPG)

- 1** In digital mode, press **GUIDE**.
- 2** Perform the desired operation as shown in the following table or displayed on the screen.

* This function may not be available in some countries/ areas.

To	Do this
View a programme	Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to select a programme, then press \oplus .
Turn off the EPG	Press GUIDE .
Sort programme information by category – Category list	<ol style="list-style-type: none"> 1 Press the blue button. 2 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to select a category, then press \oplus. <p>The categories available include: “All Categories”: Contains all available channels. Category name (e.g. “News”): Contains all channels corresponding to the selected category.</p>
Set a programme to be recorded – Timer REC	<ol style="list-style-type: none"> 1 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to select the programme you want to record, then press \oplus. 2 Press \uparrow/\downarrow to select “Timer REC”. 3 Press \oplus to set the timers on the TV and recorder. <p>A \ominus symbol (in red) appears next to the programme’s information. The \odot indicator on the TV front panel lights up in orange.</p> <p></p> <ul style="list-style-type: none"> • You can perform the above procedure even if the programme you want to record has already started.
Set a programme to be displayed automatically on the screen when it starts – Reminder	<ol style="list-style-type: none"> 1 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to select a future programme you want to display, then press \oplus. 2 Press \uparrow/\downarrow to select “Reminder”, then press \oplus. <p>A \ominus symbol appears next to the programme’s information. The \odot indicator on the TV front panel lights up in orange.</p> <p></p> <ul style="list-style-type: none"> • If you switch the TV to standby mode, the TV will automatically turn on when the programme starts.
Set the time and date of a programme you want to record – Manual timer REC	<ol style="list-style-type: none"> 1 Press \oplus. 2 Press \uparrow/\downarrow to select “Manual timer REC”, then press \oplus. 3 Press \uparrow/\downarrow to select the date, then press \rightarrow. 4 Set the start and stop time in the same way as in step 3. 5 Press \uparrow/\downarrow to select the programme, then press \oplus. 6 Press \oplus to set the timers on the TV and recorder. <p>The \odot indicator on the TV front panel lights up in orange.</p>

To	Do this
Cancel a recording/reminder – Timer list	<ol style="list-style-type: none"> 1 Press ⊕. 2 Press ⇄ to select “Timer list”, then press ⊕. 3 Press ⇄ to select the programme you want to cancel, then press ⊕. 4 Press ⇄ to select “Cancel Timer”, then press ⊕. A display appears to confirm that you want to cancel the programme. 5 Press ⇄ to select “Yes”, then press ⊕.



- You can set recorder timer recordings on the TV only when the connected recorder is compatible with SmartLink.
- Once a recording has begun, you can switch the TV to standby mode, but do not turn off the TV completely, or the recording will be cancelled.
- If an age restriction has been set to programmes, a message asking for a PIN code appears on the screen. For details, see “Parental Lock” on page 34.

Using the Digital Favourite List **DVB***



Digital Favourite List

You can specify up to four of your favourite channel lists.

- 1 In digital mode, press ♥.
- 2 Perform the desired operation as shown in the following table or displayed on the screen.

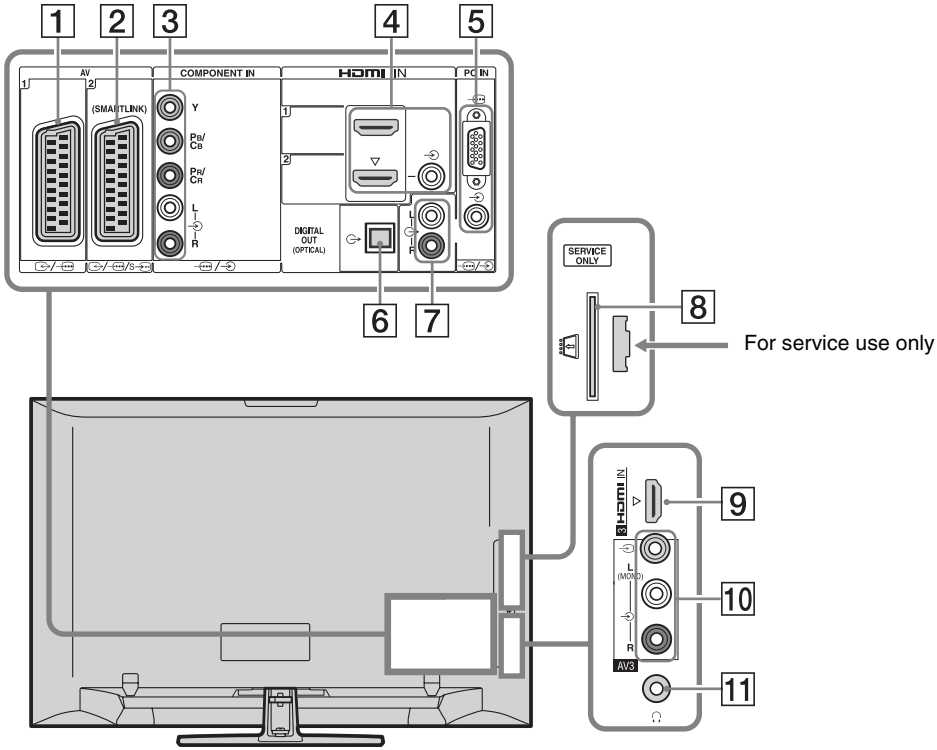
* This function may not be available in some countries/ areas.

To	Do this
Create a Favourite list for the first time	<ol style="list-style-type: none"> 1 Press ⊕ to select “Yes”. 2 Press the yellow button to select the Favourite list. 3 Press ⇄ to select the channel you want to add, then press ⊕. A ♥ symbol appears next to channels that you have stored in the Favourite list.
Watch a channel	<ol style="list-style-type: none"> 1 Press the yellow button to select a Favourite list. 2 Press ⇄ to select a channel, then press ⊕.
Add or remove channels in a Favourite list	<ol style="list-style-type: none"> 1 Press the blue button. 2 Press the yellow button to select the Favourite list to edit. 3 Press ⇄ to select the channel to add or remove, then press ⊕.
Remove all channels from a Favourite list	<ol style="list-style-type: none"> 1 Press the blue button. 2 Press the yellow button to select the Favourite list to edit. 3 Press the blue button. 4 Press ⇄ to select “Yes”, then press ⊕.

Using Optional Equipment

Connecting Optional Equipment

You can connect a wide range of optional equipment to your TV.



Connect to	Input symbol on screen	Description
1 AV1	AV1	When you connect a decoder, the TV tuner outputs scrambled signals to the decoder, and the decoder unscrambles the signals before outputting them.
2 AV2	AV2	SmartLink provides a direct link between the TV and a recorder (e.g. DVD recorder).
3 COMPONENT IN	Component	The component video sockets support the following video inputs only: 480i, 480p, 576i, 576p, 720p, 1080i and 1080p.

Connect to	Input symbol on screen	Description
4 HDMI IN 1 or 2	HDMI 1 or HDMI 2	Digital video and audio signals are input from the connected equipment.
9 HDMI IN 3	HDMI 3	In addition, when you connect the equipment that is compatible with control for HDMI, communication with the connected equipment is supported. Refer to page 30 to set up this communication. If the equipment has a DVI socket, connect the DVI socket to the HDMI IN 2 socket through a DVI - HDMI adaptor interface (not supplied), and connect the equipment's audio out sockets to the audio in sockets in the HDMI IN 2 sockets. <ul style="list-style-type: none"> • The HDMI sockets support the following video inputs only: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p and 1080/24p. For PC video inputs, see page 36. • Be sure to use an HDMI cable that bears the HDMI logo. • When connecting an audio system that is compatible with control for HDMI, be sure to also connect it to the DIGITAL AUDIO OUT (OPTICAL) socket.
5 / PC IN	PC	It is recommended to use a PC cable with ferrites like the "Connector, D-sub 15" (ref. 1-793-504-11, available in Sony Service Centre), or equivalent.
6 DIGITAL AUDIO OUT (OPTICAL) (except for KDL-40S40xx/40U40xx)		Use an optical audio cable.
7		You can listen to TV sound on the connected Hi-Fi audio equipment.
8 CAM (Conditional Access Module)		Provides access to pay TV services. For details, refer to the instruction manual supplied with your CAM. To use the CAM, remove the "dummy" card from the CAM slot, then turn off the TV and insert your CAM card into the slot. When you are not using the CAM, we recommend that you keep the "dummy" card in the CAM slot. <ul style="list-style-type: none"> • CAM is not supported in some countries/areas. Check with your authorised dealer.
10 AV3, and AV3	AV3	When connecting mono equipment, connect to the AV3 L socket.
11 Headphones		You can listen to TV sound through headphones.

Viewing Pictures from Connected Equipment

Turn on the connected equipment, and perform one of the following operations.

For equipment connected to the scart sockets using a fully-wired 21-pin scart lead

Start playback on the connected equipment. The picture from the connected equipment appears on the screen.

For an auto-tuned recorder

In analogue mode, press **PROG +/-** or the number buttons, to select the video channel.

For other connected equipment

Press \ominus to display a list of connected equipment. Press \uparrow/\downarrow to select the desired input source, then press \oplus .

The highlighted item is automatically selected if you do not perform any operation for two seconds after pressing \uparrow/\downarrow .

If you have set an input source to “Skip” in the “AV Preset” menu (page 30), that input source does not appear in the list.



- To return to normal TV mode, press **DIGITAL** or **ANALOG**.

To view two pictures simultaneously – PAP (Picture and Picture)

You can view two pictures (external input and TV programme) on the screen simultaneously. Connect an optional equipment (page 21), and make sure that images from the equipment appear on the screen (page 23).



- This function is not available for a PC input source.
- You cannot change the size of the pictures.
- You cannot display analogue TV video in the TV programme picture while displaying AV1, AV2 or AV3 video in the external inputs picture. The TV outputs the analogue TV's sound.

1 Press **TOOLS**.

2 Press \uparrow/\downarrow to select “PAP”, then press \oplus .

The picture from the connected equipment is displayed on the left, and the TV programme is displayed on the right.

3 Press the number buttons or **PROG +/-** to select the TV channel.

To return to single picture mode

Press \oplus or **RETURN**.



- The picture framed in green is audible. You can switch the audible picture by pressing \leftarrow/\rightarrow .

To view two pictures simultaneously – PIP (Picture in Picture)

You can view two pictures (PC input and TV programme) on the screen simultaneously. Connect a PC (page 21), and make sure that images from the PC appear on the screen.



- “Power Management” (page 29) is not available in PIP mode.

1 Press **TOOLS**.

2 Press \uparrow/\downarrow to select “PIP”, then press \oplus .

The picture from the connected PC is displayed in full size, and the TV programme is displayed in the small screen.

You can use $\uparrow/\downarrow/\leftarrow/\rightarrow$ to change the position of the TV programme screen.

3 Press the number buttons or **PROG +/-** to select a TV channel.

To return to single picture mode

Press **RETURN**.



- You can switch the audible picture by selecting “Audio Swap” from the Tools menu.

Using BRAVIA Sync (Control for HDMI)

The control for HDMI function enables the TV to communicate with the connected equipment that is compatible with the function, using HDMI CEC (Consumer Electronics Control). For example, by connecting Sony equipment that is compatible with control for HDMI (with HDMI cables), you can control them together.

Be sure to connect the equipment correctly, and make the necessary settings.

Control for HDMI

- Automatically turns the connected equipment off when you switch the TV to standby mode using the remote.
- Automatically turns the TV on and switches the input to the connected equipment when the equipment starts to play.
- If you turn on a connected audio system while the TV is on, the sound output switches from the TV speaker to the audio system.
- Adjusts the volume (◀ +/-) and mutes the sound (⊗) of a connected audio system.
- You can operate the connected Sony equipment that has the BRAVIA Sync logo by the TV remote by pressing:
 - ▶/■/II/◀◀/▶▶ to operate the connected equipment directly.
 - **SYNC MENU** to display the menu of the connected HDMI equipment on the screen. After displaying the menu, you can operate the menu screen by using ↶/↷/↵ and ⊕.
 - **TOOLS** to display “Device Control”, then select options from “Menu”, “Options”, and “Content List” to operate the equipment.
 - Refer to the instruction manual of the equipment for available control.

To connect the equipment that is compatible with control for HDMI

Connect the compatible equipment and the TV with an HDMI cable. When connecting an audio system, be sure to also connect the DIGITAL AUDIO OUT (OPTICAL) socket of the TV and the audio system using an optical audio cable (except for KDL-40S40xx/40U40xx). For details, see page 21.

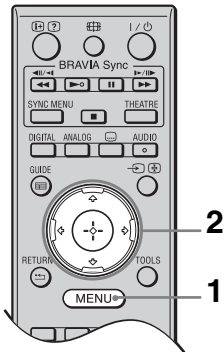
To make the control for HDMI settings

The control for HDMI settings must be set on both the TV side and connected equipment side. See “HDMI Set-up” on page 30 for the TV side settings. For settings on the connected equipment, refer to the operating instructions for that equipment.

Using Menu Functions

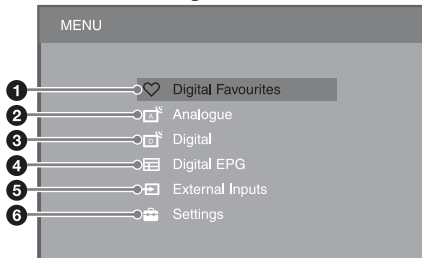
Navigating through menus

Menu functions allow you to enjoy various convenient features of this TV. You can easily select channels or input sources, and change the settings for your TV.



- 1 Press **MENU**.
- 2 Press \leftarrow/\rightarrow to select an option, then press \oplus .

To exit the menu, press **MENU**.



- 1 **Digital Favourites***
Displays the Favourite list (page 20).
- 2 **Analogue**
Returns to the last viewed analogue channel.
- 3 **Digital***
Returns to the last viewed digital channel.
- 4 **Digital EPG***
Displays the Digital Electronic Programme Guide (EPG) (page 18).
- 5 **External Inputs**
Displays a list of equipment connected to the TV.
 - To view pictures from an external input, select the input source, then press \oplus .



- To select the equipment that is compatible with control for HDMI, select “HDMI Device Selection”.
- 6 **Settings**
Displays the “Settings” menu where most of the advanced settings and adjustments are performed.
 - 1 Press \leftarrow/\rightarrow to select a menu item, then press \oplus .
 - 2 Press $\leftarrow/\rightarrow/\leftarrow/\rightarrow$ to select an option or adjust a setting, then press \oplus .For details about settings, see pages 26 to 34.



- The options you can adjust vary depending on the situation. Unavailable options are greyed out or not displayed.
- *This function may not be available in some countries/areas.



TV Settings Menu

Picture






Picture Mode	Sets a picture mode when displaying an input other than a PC. The options for “Picture Mode” may differ depending on the “Video/Photo” setting (page 28). Vivid (“Shop”, see page 7) Enhances picture contrast and sharpness. Standard (“Home”, see page 7) For standard pictures. Recommended for home entertainment. Cinema For viewing film-based content. Most suitable when viewing the TV in a theatre-like environment. Photo Sets the optimum picture quality for photographs.
Display Mode	Sets a display mode when displaying a PC input. Video For video images. Text For text, charts or tables.
Reset	Resets all the “Picture” settings to the factory settings excluding “Picture Mode” and “Display Mode”.
Backlight	Adjusts the brightness of the backlight.
Contrast	Increases or decreases picture contrast.
Brightness	Brightens or darkens the picture.
Colour	Increases or decreases colour intensity.
Hue	Increases or decreases the green tones and red tones.  • “Hue” can be adjusted only for the NTSC colour signal (e.g. U.S.A. video tapes).
Colour Temperature	Adjusts the whiteness of the picture. Cool Gives white colours a blue tint. Neutral Gives white colours a neutral tint. Warm 1/Warm 2 Gives white colours a red tint. “Warm 2” gives a redder tint than “Warm 1”.  • “Warm 1” and “Warm 2” are not available when “Picture Mode” is set to “Vivid”.
Sharpness	Sharpens or softens the picture.
Noise Reduction	Reduces the noise level of pictures (snowy pictures) when the broadcast signal is weak. Auto Automatically reduces picture noise (in analogue TV mode only). High/Medium/Low Modifies the effect of the noise reduction. Off Turns off the “Noise Reduction”.
MPEG Noise Reduction	Reduces picture noise in MPEG-compressed videos.

Advanced Settings	Allows you to set “Picture” settings in more detail. These settings are not available when “Picture Mode” is set to “Vivid”.
Adv. Contrast Enhancer	Automatically adjusts “Backlight” and “Contrast” to the most suitable settings judging from the brightness of the screen. This setting is especially effective for dark images scenes, and will increase the contrast distinction of the darker picture scenes.
Live Colour	Makes colours more vivid.



Sound

Sound Effect	Sets the sound mode.
Dynamic	Intensifies clarity and sound presence for better intelligibility and musical realism by using the “BBE High definition Sound System”.
Standard	Enhances clarity, detail, and sound presence by using “BBE High definition Sound System”.
Clear Voice	Makes voice sound clearer.
Dolby Virtual	Uses the TV speakers to simulate the surround effect produced by a multi channel system.
BBE ViVA	BBE ViVA Sound provides musically accurate natural 3D image with Hi-Fi sound. The clarity of the sound is improved by BBE while the width depth and height of sound image are expanded by BBE’s proprietary 3D sound process. BBE ViVA Sound is compatible with all TV programs including news, music, dramas, movies, sports and electronic games.  <ul style="list-style-type: none"> • If “Auto Volume” is set to “On”, “Dolby Virtual” is automatically changed to “Standard”.
Reset	Resets all the “Sound” settings to the factory settings excluding “Dual Sound”.
Treble	Adjusts higher-pitched sounds.
Bass	Adjusts lower-pitched sounds.
Balance	Emphasises the left or right speaker.
Auto Volume	Keeps volume level constant across all programmes and adverts (e.g. adverts tend to be louder than programmes).
Volume Offset	Sets an independent volume level to each equipment connected to the TV.
Dual Sound	Sets the sound from the speaker for a stereo or bilingual broadcast. Stereo/Mono For stereo broadcasts. A/B/Mono For bilingual broadcasts, select “A” for sound channel 1, “B” for sound channel 2, or “Mono” for mono channel, if available.  <ul style="list-style-type: none"> • For other equipment connected to the TV, set “Dual Sound” to “Stereo”, “A”, or “B”. • When you connect an external equipment to the HDMI socket, “Dual Sound” is automatically set to “Stereo” (except when using the audio in sockets).



Features

Quick Start	The TV turns on faster than usual within two hours after switching to standby mode. However, power consumption in standby mode is higher than usual.		
Power Saving	Reduces power consumption of the TV by adjusting the backlight. When you select “Picture Off”, the picture is switched off, and the  (Picture Off) indicator on the TV front panel lights up in green. The sound remains unchanged.		
Film Mode	Provides improved picture movement when playing DVD or VCR images taken on film, reducing picture blur and graininess.		
	Auto	Provides smoother picture movement than the original film-based content. Use this setting for standard use.	
	Off	Turns off the “Film Mode”.	
		<ul style="list-style-type: none"> • If the image contains irregular signals or too much noise, “Film Mode” is automatically turned off even if “Auto” is selected. 	
Video/Photo	Sets the image quality setting most suited to the input source (video or photograph data).		
	Video-A	Sets suitable image quality, depending on the input source, video data or photograph data when directly connecting Sony HDMI output-capable equipment that supports “Video-A” mode.	
	Video	Produces suitable image quality for moving pictures.	
	Photo	Produces suitable image quality for still images.	
			<ul style="list-style-type: none"> • If the connected equipment does not support Video-A mode, the setting is automatically set to “Video”, even if you select “Video-A”. • “Video/Photo” is available only for HDMI or component input source (1080p and 1080i).
Timer Settings	Sleep Timer	Sets the TV to automatically switch to standby mode after a certain amount of time. When “Sleep Timer” is activated, the  (Timer) indicator on the TV front panel lights up in orange.	
			
		<ul style="list-style-type: none"> • When you turn off the TV and turn it on again, “Sleep Timer” is reset to “Off”. • A notification message appears on the screen one minute before the TV switches to standby mode. 	
	On Timer Settings	On Timer	Sets the TV to automatically turn on from standby mode.
		Timer Mode	Set the day you want the timer to turn on the TV.
		Time	Set the time you want the timer to turn on the TV.
	Duration	Set how long you want the TV to stay on before switching to standby mode again.	
	Clock Set	Allows you to adjust the clock manually. When the TV is receiving digital channels, you cannot adjust the clock manually, because the clock automatically receives the time code from the broadcast signal.	

Set-up

Auto Start-up	You can run the initial set-up that appeared when you first connected the TV (page 6), and select the language, country/area and tune in all available channels again. Even if you have made the settings when you first connected the TV, you may need to change the settings after moving house, or to search for newly launched channels.	
Language	Sets the language displayed on the menu screens.	
Screen Settings	Screen Format	See “To change the screen format manually” on page 17.
	Auto Format	Automatically changes the screen format to match the broadcast signal. If you want to use the setting that you specified in “Screen Format”, select “Off”.
	Display Area	Adjusts the picture display area in 1080i/p and 720p sources when “Screen Format” is set to “Wide”.
	Auto	During digital broadcasts, displays pictures in accordance with the settings recommended by the broadcast station.
	Full Pixel	Displays the original picture area.
	Normal	Displays pictures in their recommended size.
	Horizontal Shift	Adjusts the horizontal position of the picture.
	Vertical Shift	Adjusts the vertical position of the picture when “Screen Format” is set to “Smart”, “Zoom” or “14:9”.  • “Vertical Shift” is not available when “Display Area” is set to “Full Pixel”.
	Vertical Size	Adjusts the vertical size of the picture when “Screen Format” is set to “Smart”, “Zoom” or “14:9”.
	PC Settings	Screen Format
Full 1		Enlarges the picture to fill the vertical display area, while maintaining its original proportion.
Full 2		Enlarges the picture to fill the display area.
Reset		Resets all PC screen settings to factory settings.
Auto Adjustment		Automatically adjusts the display position and phase of the picture when the TV receives an input signal from the connected PC.  • “Auto Adjustment” may not work well with certain input signals. In such cases, manually adjust “Phase” and “Horizontal Shift”.
Phase		Adjusts the phase when the screen flickers.
Pitch		Adjusts the pitch when the picture has unwanted vertical stripes.
Horizontal Shift		Adjusts the horizontal position of the picture.
Power Management		Switches the TV to standby mode if no signal is received for 30 seconds.

AV Set-up	AV Preset	<p>Assigns a name to equipment connected to the side and rear sockets. The name appears briefly on the screen when you select the equipment. You can skip input sources from connected equipment that you do not want displayed on the screen.</p> <p>1 Press / to select the desired input source, then press .</p> <p>2 Press / to select the desired option, then press .</p>
	Equipment labels	Uses preset labels to assign a name to connected equipment.
	Edit:	Allows you to create your own label. Press / to select the desired letter or number, then press . Repeat this step until you complete the name, then select “OK” and press .
	Skip	Skips unnecessary input sources.
AV2 Input	<p>Sets a signal to be input from the ///AV2 socket. Usually, set to “Auto”.</p> <p>However, depending on the connected equipment, the signal may not be correctly detected even though “Auto” is selected. If the video from the equipment connected to the ///AV2 socket is not displayed correctly, select “Composite”, “S Video”, or “RGB” for the signal of the connected equipment.</p>	
AV2 Output	<p>Sets a signal to be output to the ///AV2 socket. If you connect a recorder or other recording equipment to the ///AV2 socket, you can record the output signal from other equipment connected to the TV.</p>	
	TV	Outputs TV broadcasts.
	Auto	Outputs whatever is being viewed on the screen (except signals from the //COMPONENT IN, HDMI IN 1, HDMI IN 2, HDMI IN 3, and //PC IN sockets).
Speaker	TV Speaker	Turns on and outputs the TV’s sound from the TV speakers.
	Audio System	Turns off the TV speakers and outputs the TV’s sound from external audio equipment connected to the audio output sockets on the TV. You can also turn on the connected equipment that is compatible with control for HDMI, after making the appropriate settings of control for HDMI.
Audio Out	Variable	Allows you to use the TV’s remote to control audio output from an audio system connected to the TV.
	Fixed	The audio output of the TV is fixed. Use your audio receiver’s volume control to adjust the volume (and other audio settings) through your audio system.
HDMI Set-up	<p>Allows the TV to communicate with equipment that is compatible with the control for HDMI function, and connected to the HDMI sockets of the TV. Note that communication settings must also be made on the connected equipment.</p>	

Control for HDMI	Sets whether or not to link the operations of the TV and the connected equipment that is compatible with control for HDMI. When set to “On”, the following menu items can be performed. If the specific Sony equipment that is compatible with control for HDMI is connected, this setting is applied to the connected equipment automatically when the “Control for HDMI” is set to “On” using the TV.
Auto Devices Off	When this is set to “On”, the connected equipment that is compatible with control for HDMI turns off when you switch the TV to standby mode using the remote.
Auto TV On	When this is set to “On”, the TV turns on when you turn on the connected equipment that is compatible with control for HDMI.
Device List Update	Creates or updates the “HDMI Device List”. Up to 11 compatible equipment items can be connected, and up to 5 equipment items can be connected to a single socket. Be sure to update the “HDMI Device List” when you change the connections or settings. If the specific Sony equipment that is compatible with control for HDMI is connected, this setting is applied to the connected equipment automatically when the “Device List Update” is executed on the TV.
HDMI Device List	Displays a list of connected equipment that is compatible with control for HDMI.
	 <ul style="list-style-type: none"> You cannot use “Control for HDMI” if the TV operations are linked to the operations of an audio system that is compatible with control for HDMI.
Product Information	Displays product information of the TV.
All Reset	Resets all settings to factory settings and displays the “Auto Start-up” screen.  <ul style="list-style-type: none"> Do not turn off the TV or press any buttons during “All Reset” (takes about 30 seconds). Settings for the Digital Favourites lists, country/area, language, and auto tuned channels will also be reset to factory settings.

Analogue Set-up

Auto Tuning	Tunes in all the available analogue channels. You can retune the TV after moving house, or to search for newly launched channels.
Programme Sorting	Changes the order of analogue channels stored in the TV. <ol style="list-style-type: none"> Press \uparrow/\downarrow to select the channel you want to move to a new position, then press \oplus. Press \uparrow/\downarrow to select the new position for the channel, then press \oplus.

Manual Programme Preset

Press \leftarrow/\rightarrow to select the programme number you want to manually tune (if tuning a recorder, select channel 00), then press \oplus .

- System/Channel 1** Press \leftarrow/\rightarrow to select “System”, then press \oplus .
- 2** Press \leftarrow/\rightarrow to select one of the following TV broadcast systems, then press **RETURN**.
B/G: For western European countries/areas
I: For the United Kingdom
D/K: For eastern European countries/areas
L: For France
- 3** Press \leftarrow/\rightarrow to select “Channel”, then press \oplus .
- 4** Press \leftarrow/\rightarrow to select “S” (for cable channels) or “C” (for terrestrial channels), then press \rightarrow .



- “S” is not available when “United Kingdom” is selected for “Country” (page 7).

- 5** Tune the channels as follows:

If you do not know the channel number (frequency)


Press \leftarrow/\rightarrow to search for the next available channel. The search stops when a channel is found. To continue searching, press \leftarrow/\rightarrow .







If you know the channel number (frequency)

Press the number buttons to enter the channel number of the broadcast you want to tune, or the channel number of your recorder.













- 6** Press \oplus to jump to “Confirm”, then press \oplus .

Repeat the above procedure to preset other channels manually.

Label	Assigns a name of your choice, up to five letters or numbers, to the selected channel. This name appears briefly on the screen when you select the channel.
AFT	Allows you to fine-tune the selected channel manually if you feel that a slight tuning adjustment may improve picture quality. You can adjust the fine tuning over a range of -15 to +15. When “On” is selected, fine tuning adjustments are made automatically.
Audio Filter	Improves the sound of individual channels when distortion occurs in mono broadcasts. Sometimes a non-standard broadcast signal can cause sound distortion or intermittent sound muting in mono programmes. If you do not experience any sound distortion, we recommend that you leave this option to “Off” (factory setting).  <ul style="list-style-type: none">• You cannot receive stereo or dual sound when “Low” or “High” is selected.• “Audio Filter” is not available when “System” is set to “L”.
LNA	Improves the picture quality of the channel (noisy picture) when the broadcast signal is very weak. If you cannot see any improvement in the picture quality even if you set to “On”, set this option to “Off” (factory setting).
Skip	Skips unused analogue channels when you press PROG +/- to select channels. To select channels you have programmed to skip, use the corresponding number buttons.

Decoder	Allows you to view and record the scrambled channel when using a decoder connected directly to scart connector  /  AV1, or  /  S-  AV2 via a recorder.  • This option is not available when “United Kingdom” is selected for “Country” (page 7).
Confirm	Saves changes you have made to the “Manual Programme Preset” settings.

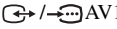
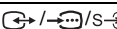




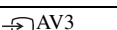
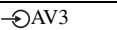

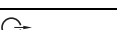


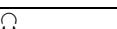
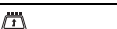
Digital Set-up

Digital Tuning	Digital Auto Tuning	Tunes in the available digital channels. You can retune the TV after moving house, or to search for newly launched channels.	
	Programme List Edit	Allows you to remove or change the order of digital channels stored in the TV. 1 Press  to select the channel you want to remove or move to a new position. You can also select a channel by pressing the number buttons to enter its three-digit channel number. 2 Remove or change the order of the digital channels as follows: To remove the digital channel Press  . After a confirmation message appears, press  to select “Yes”, then press  . To change the order of the digital channels Press  , then press  or number buttons to select the new position for the channel and press  . 3 Press RETURN .	
	Digital Manual Tuning	Tunes the digital channels manually. This feature is available when “Digital Auto Tuning” is set to “Antenna”. 1 Press the number buttons to enter the channel number you want to tune, then press  . 2 When the available channels are found, press  to select the channel you want to store, then press  . 3 Press  to select the channel number where you want to store the new channel, then press  . Repeat the above procedure to tune other channels.	
Digital Set-up	Subtitle Set-up	Subtitle Setting	When set to “For Hard Of Hearing”, visual aids for the hearing impaired are displayed with the subtitles (when such visual aids are available).
		Subtitle Language	Allows you to select the language of the subtitles.
	Audio Set-up	Audio Type	Switches to broadcast for the hearing impaired when you select “For Hard Of Hearing”.
	Audio Language	Sets the language to be used for a programme. Some digital channels may broadcast several audio languages for a programme.	

	Audio Description	Provides audio description (narration) of visual information, when such information is available.
	Mixing Level	Adjusts the TV main audio and Audio Description output levels.
Radio Display		Displays the screen wallpaper when you listen to a radio broadcast. You can select the screen wallpaper colour, or display a random colour. To cancel the screen wallpaper display temporarily, press any button.
Parental Lock		<p>Sets an age restriction to viewing or recording programmes. To view or record any programme rated for ages above the age you specify, enter the correct PIN code.</p> <ol style="list-style-type: none"> 1 Press the number buttons to enter your PIN code. If you have not already set a PIN code, a PIN code entry screen appears. Follow the instructions in “PIN Code” below. 2 Press / to select an age restriction or “None” (for unrestricted watching), then press . 3 Press RETURN.
PIN Code	To set a PIN for the first time	<ol style="list-style-type: none"> 1 Press the number buttons to enter a PIN code. 2 Press RETURN. <p>To change your PIN</p> <ol style="list-style-type: none"> 1 Press the number buttons to enter your PIN code. 2 Press the number buttons to enter a new PIN code. 3 Press RETURN. <p></p> <ul style="list-style-type: none"> • PIN code 9999 is always accepted.
Technical Set-up	Auto Service Update	Enables the TV to detect and store new digital services as they become available.
	Software Download	Enables the TV to automatically receive free software updates through your existing aerial/cable (when issued). We recommend that you leave the setting to “On” at all times.
	System Information	Displays the current software version and the signal level.
	Time Zone	Allows you to manually select the time zone you are in, if it is not the same as the default time zone setting for your country/area.
	Auto DST	<p>Sets whether or not to automatically switch between summer time and winter time.</p> <p>Off: Displays the time according to the time difference set in “Time Zone”.</p> <p>On: Automatically switches between summer time and winter time according to the calendar.</p>
CA Module Set-up		Provides access to a pay TV service after you obtain a Conditional Access Module (CAM) and a view card. See page 22 for the location of the (PCMCIA) socket.

Additional Information

Specifications

Model name	KDL-40S40xx/ 40U40xx	KDL-40V4000/ 40V42xx	KDL-46V4000/ 46V42xx	KDL-52V4000/ 52V42xx	
System					
Panel system	LCD (Liquid Crystal Display) Panel				
TV system	Analogue: Depending on your country/area selection: B/G/H, D/K, L, I Digital: DVB-T/DVB-C				
Colour/video system	Analogue: PAL, SECAM, NTSC 3.58, 4.43 (only video input) Digital: MPEG-2 MP@ML/HL				
Channel coverage	Analogue: VHF: E2–E12/UHF: E21–E69/CATV: S1–S20/HYPER: S21–S41 D/K: R1–R12, R21–R69/L: F2–F10, B–Q, F21–F69/I: UHF B21–B69 Digital: VHF/UHF				
Sound output	10 W + 10 W				
Input/Output jacks					
Aerial/cable	75 ohm external terminal for VHF/UHF				
 AV1	21-pin scart connector (CENELEC standard) including audio/video input, RGB input, and TV audio/video output.				
 /  /  AV2 (SmartLink)	21-pin scart connector (CENELEC standard) including audio/video input, RGB input, S video input, selectable audio/video output, and SmartLink interface.				
 COMPONENT IN	Supported formats: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Y: 1 Vp-p, 75 ohms, 0.3V negative sync/Pb/Cb: 0.7 Vp-p, 75 ohms/ Pr/Cr: 0.7 Vp-p, 75 ohms				
 COMPONENT IN	Audio input (phono jacks)				
HDMI IN 1, 2, 3	Video: 1080/24p, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Audio: Two channel linear PCM: 32, 44.1 and 48 kHz, 16, 20 and 24 bits Analogue audio input (phono jacks) (HDMI IN 2 only) PC Input (see page 36)				
 AV3	Video input (phono jack)				
 AV3	Audio input (phono jacks)				
 DIGITAL AUDIO OUT (OPTICAL) (except for KDL-40S40xx/40U40xx)	Digital optical jack				
	Audio output (phono jacks)				
 PC IN	PC Input (D-sub 15-pin) (see page 36) G: 0.7 Vp-p, 75 ohms, non Sync on Green/B: 0.7 Vp-p, 75 ohms/ R: 0.7 Vp-p, 75 ohms/HD: 1-5 Vp-p/VD: 1-5 Vp-p  PC audio input (minijack)				
	Headphones jack				
	CAM (Conditional Access Module) slot				
Power and others					
Power requirements	220 V – 240 V AC, 50 Hz				
Screen size (measured diagonally)	40 inches (Approx. 101.6 cm)	40 inches (Approx. 101.6 cm)	46 inches (Approx. 116.8 cm)	52 inches (Approx. 132.2 cm)	
Display resolution	1,920 dots (horizontal) × 1,080 lines (vertical)				
Power consumption	in “Home”/ “Standard” mode	175 W	175 W	215 W	222 W
	in “Shop”/ “Vivid” mode	197 W	197 W	238 W	249 W
Standby power consumption*	0.19 W				

Model name		KDL-40S40xx/ 40U40xx	KDL-40V4000/ 40V42xx	KDL-46V4000/ 46V42xx	KDL-52V4000/ 52V42xx
Dimensions (Approx.) (w × h × d)	with Table-Top Stand	99.7 × 69.1 × 27.9 cm	98.6 × 68.4 × 27.9 cm	112.0 × 78.2 × 30.7 cm	126.2 × 87.1 × 34.7 cm
	without Table- Top Stand	99.7 × 64.4 × 11.0 cm	98.6 × 64.6 × 11.0 cm	112.0 × 74.2 × 11.5 cm	126.2 × 82.9 × 11.9 cm
Mass (Approx.)	with Table-Top Stand	23.0 kg	21.5 kg	29.0 kg	38.0 kg
	without Table- Top Stand	20.0 kg	18.5 kg	25.0 kg	32.0 kg
Supplied accessories		See “1: Checking the accessories” on page 4.			
Optional accessories		SU-WL500 Wall-Mount Bracket/SU-FL300M TV stand			SU-WL500 Wall- Mount Bracket

* Specified standby power is reached after the TV finishes necessary internal processes.

Design and specifications are subject to change without notice.

PC input signal reference chart for PC

Resolution			Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
Signals	Horizontal (Pixel)	× Vertical (Line)			
VGA	640	× 480	31.5	60	VESA
	640	× 480	37.5	75	VESA
	720	× 400	31.5	70	VGA-T
SVGA	800	× 600	37.9	60	VESA Guidelines
	800	× 600	46.9	75	VESA
XGA	1024	× 768	48.4	60	VESA Guidelines
	1024	× 768	56.5	70	VESA
	1024	× 768	60.0	75	VESA
WXGA	1280	× 768	47.4	60	VESA
	1280	× 768	47.8	60	VESA
	1280	× 768	60.3	75	
	1360	× 768	47.7	60	VESA
SXGA	1280	× 1024	64.0	60	VESA



- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC input does not support interlaced signals.
- This TV's PC input supports signals in the above chart with a 60 Hz vertical frequency. For other signals, you will see the message “NO SYNC”.

PC input signal reference chart for HDMI IN 1, 2, 3



Resolution			Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
Signals	Horizontal (Pixel)	× Vertical (Line)			
VGA	640	× 480	31.5	60	VESA
SVGA	800	× 600	37.9	60	VESA Guidelines
XGA	1024	× 768	48.4	60	VESA Guidelines
WXGA	1280	× 768	47.4	60	VESA
WXGA	1280	× 768	47.8	60	VESA
SXGA	1280	× 1024	64.0	60	VESA

Troubleshooting

Check whether the  (standby) indicator is flashing in red.







When the (standby) indicator is flashing

The self-diagnosis function is activated.

- 1 Count how many times the  (standby) indicator flashes between each two second break.
For example, the indicator may flash three times, go off for two seconds, then flash again three times.
- 2 Press  on the TV to turn it off, disconnect the mains lead, and inform your dealer or Sony service centre of how the indicator flashes (number of flashes).

When the (standby) indicator is not flashing

- 1 Check the items in the tables below.
- 2 If the problem persists, have your TV serviced by qualified service personnel.

Condition	Explanation/Solution
Picture	
There is no picture (screen is dark) and no sound.	<ul style="list-style-type: none"> • Check the aerial/cable connection. • Connect the TV to the mains, and press  on the TV. • If the  (standby) indicator lights up in red, press .
No picture or menu information from equipment connected to the scart connector appears on the screen.	<ul style="list-style-type: none"> • Press  to display the list of connected equipment, then select the desired input. • Check the connection between the optional equipment and the TV.
Ghosting occurs, or double images appear.	<ul style="list-style-type: none"> • Check the aerial/cable connection. • Check the aerial location and direction.
Only snow and noise appear on the screen.	<ul style="list-style-type: none"> • Check if the aerial is broken or bent. • Check if the aerial has reached the end of its serviceable life (three to five years for normal use, one to two years when used at the seaside).
The picture is distorted (dotted lines or stripes appear).	<ul style="list-style-type: none"> • Keep the TV away from electrical noise sources such as cars, motorcycles, hair-dryers, or optical equipment. • When installing optional equipment, leave some space between the optional equipment and the TV. • Check the aerial/cable connection. • Keep the aerial/cable TV cable away from other connecting cables.
There is picture or sound noise when viewing a TV channel.	<ul style="list-style-type: none"> • Adjust "AFT" (Automatic Fine Tuning) to obtain better picture reception (page 32).
Tiny black points and/or bright points appear on the screen.	<ul style="list-style-type: none"> • The screen is composed of pixels. Tiny black points and/or bright points (pixels) on the screen do not indicate a malfunction.
The picture contours are distorted.	<ul style="list-style-type: none"> • Select "Auto" in "Film Mode" (page 28).
The picture is not displayed in colour.	<ul style="list-style-type: none"> • Select "Reset" (page 26).
The picture from equipment connected to the  COMPONENT IN sockets is not displayed in colour, or is displayed in irregular colours.	<ul style="list-style-type: none"> • Check the connection of the  COMPONENT IN sockets and check if the sockets are firmly seated in their respective sockets.

Condition	Explanation/Solution
Sound	
The picture is good, but there is no sound.	<ul style="list-style-type: none"> • Press \triangleleft +/- or Mute (Mute). • Check if the “Speaker” is set to “TV Speaker” (page 30). • When using HDMI input with Super Audio CD or DVD-Audio, DIGITAL AUDIO OUT (OPTICAL) may not output audio signals.
Channels	
You cannot select your desired channel.	<ul style="list-style-type: none"> • Switch between digital and analogue mode, and select the desired digital/analogue channel.
Some channels are blank.	<ul style="list-style-type: none"> • The channel is for scrambled/subscription service only. Subscribe to a pay TV service. • The channel is used only for data (no picture or sound). • Contact the broadcaster for transmission details.
You cannot view digital channels.	<ul style="list-style-type: none"> • Contact a local installer to find out if digital transmissions are provided in your area. • Upgrade to a higher gain aerial.
General	
The TV turns off automatically (the TV enters standby mode).	<ul style="list-style-type: none"> • Check if the “Sleep Timer” is activated, or confirm the “Duration” setting of “On Timer Settings” (page 28). • If no signal is received and no operation is performed in the TV mode for 10 minutes, the TV automatically switches to standby mode.
The TV turns on automatically.	<ul style="list-style-type: none"> • Check if the “On Timer Settings” is activated (page 28).
Some input sources cannot be selected.	<ul style="list-style-type: none"> • Select “AV Preset” and cancel the “Skip” setting for the input source (page 30).
The remote does not function.	<ul style="list-style-type: none"> • Replace the batteries.
You cannot add a channel to the Favourite list.	<ul style="list-style-type: none"> • Up to 999 channels can be stored in the Favourite list.
HDMI equipment does not appear on “HDMI Device List”.	<ul style="list-style-type: none"> • Check that your equipment is compatible with control for HDMI.
You cannot select “Off” in “Control for HDMI”.	<ul style="list-style-type: none"> • If you have connected any audio system that is compatible with control for HDMI, you cannot select “Off” in this menu. If you want to change the audio output to the TV speaker, select “TV Speaker” in the “Speaker” menu (page 30).
Not all channels are tuned for cable.	<ul style="list-style-type: none"> • Check the support website for cable provide information. http://support.sony-europe.com/TV/DVBC/



For useful information about Sony products

<http://www.sony-europe.com/myproduct/>



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<http://www.sony.net/>

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